

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference FY51421JPWO1	FOR FURTHER ACTION	See item 4 below
International application No. PCT/JP2005/011804	International filing date (<i>day/month/year</i>) 28 June 2005 (28.06.2005)	Priority date (<i>day/month/year</i>) 01 July 2004 (01.07.2004)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant YAMAHA HATSUDOKI KABUSHIKI KAISHA		

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).																								
2.	This REPORT consists of a total of 5 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.																								
3.	<p>This report contains indications relating to the following items:</p> <table style="width: 100%;"> <tr> <td style="width: 10%; text-align: center;"><input checked="" type="checkbox"/></td> <td style="width: 30%;">Box No. I</td> <td style="width: 60%;">Basis of the report</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table>	<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input type="checkbox"/>	Box No. VIII	Certain observations on the international application
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<input type="checkbox"/>	Box No. VIII	Certain observations on the international application																							
4.	The International Bureau will communicate this report to designated Offices in accordance with Rules 44 <i>bis</i> .3(c) and 93 <i>bis</i> .1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44 <i>bis</i> .2).																								

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Date of issuance of this report 16 January 2007 (16.01.2007)
Facsimile No. +41 22 338 82 70	Authorized officer <div style="text-align: center; font-weight: bold; margin-top: 10px;">Yoshiko Kuwahara</div> e-mail: pt07@wipo.int

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

TRANSLATION
PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

FY51421JPWO1

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2005/011804

International filing date (day/month/year)

28.06.2005

Priority date (day/month/year)

01.07.2004

International Patent Classification (IPC) or both national classification and IPC

Applicant

YAMAHA HATSUDOKI KABUSHIKI KAISHA

1. This opinion contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the opinion |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2005/011804

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language
_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2005/011804

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	<u>1-13</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	_____	YES
	Claims	<u>1-13</u>	NO
Industrial applicability (IA)	Claims	<u>1-13</u>	YES
	Claims	_____	NO
2. Citations and explanations:			
<p>Document 1: JP, 2-118269, A (Yamaha Motor Co., Ltd.), 2 May, 1990 (02.05.90), page 4, upper left column, lines 4-11; page 4, upper right column, lines 10-18, Fig. 2</p> <p>Document 2: JP, 5-39865, A (Honda Motor Co., Ltd.), 19 February, 1993 (19.02.93), paragraph [0017], Fig. 5</p> <p>Document 3: JP, 3-172675, A (Iseki & Co., Ltd., Kobe Steel, Ltd.), 26 July, 1991 (26.07.91), page 4, lower left column, line 3 to lower right column, line 9, Figs. 1, 6 and 7, & US, 5086896, A, & EP, 429801, A2, & KR, 9311564, B</p> <p>Document 4: JP, 2002-243034, A (Isuzu Motors Ltd.), 28 August, 2002 (28.08.02), paragraph [0013], Fig. 1, & US, 2002/96009, A1, & US, 2003/230158, A1, & EP, 1225374, A2</p> <p>Document 5: JP, 62-110532, A (Fuji Tekkosho Kabushiki Kaisha, Nissan Motor Co., Ltd.), 21 May, 1987 (21.05.87), page 4, upper left, lines 8-13; Fig. 1</p> <p>Claims 1 and 13</p> <p>Document 1 describes a shift operating apparatus of a saddle type vehicle operating a change pedal to rotate a shift drum via a coupling rod to perform a shift operation. Document 2 describes a shift controlling apparatus of a saddle type vehicle stroking an electrically-driven motor by a predetermined amount to rotate a shift drum shaft to perform shift control. Document 3 describes an actuating force transmitting mechanism comprising an urging means for urging first and second coupling sections to a neutral position, and a stopper mechanism stopping a relative movement when the first or second coupling section relatively moves from the neutral position against an urging force of the urging means. A person skilled in the art could have easily arrived at the subject matters by combining the inventions of documents 1-3.</p> <p>Claim 2</p> <p>Document 2 describes that when a reactive force is exerted on the movement of an actuating force transmitting mechanism, the actuation force transmitting mechanism relatively moves against an urging force of an urging means until a first or second coupling section is stopped by a stopper mechanism, and thereafter the first and second coupling sections move together. A person skilled in the art could have easily arrived at the subject matters by combining the inventions of documents 1-3.</p> <p>Claim 3</p> <p>Document 3 describes an actuating force transmitting mechanism, wherein first and second coupling sections are formed of cylindrical members that contain a rod and a part of the rod. A person skilled in the art could have easily arrived at the subject matters by combining the inventions of documents 1-3.</p>			

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/011804

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

Claims 4-9

Document 4 describes a structure in which a coil spring is placed between a rod and a cylindrical member, the rod has sites having different diameters, the site having a larger diameter is a portion of contact with a spring, the cylindrical member has a step formed on the inner surface, the step is a part of a stopper mechanism, the cylindrical member includes a plurality of cylindrical members having inner and outer surfaces, and first and second coupling sections are placed such that their front ends overlap each other. A person skilled in the art could have easily arrived at the subject matters by combining the inventions of documents 1-4.

Claim 10

A person skilled in the art could have easily arrived at the subject matters by combining the inventions of documents 1-3. At this time, a person skilled in the art could have placed as required the actuating force transmitting mechanism at some midpoint on the coupling rod.

Claim 11

Document 5 describes that an actuating force transmitting mechanism is provided in a case held by a coupling rod. A person skilled in the art could have easily arrived at the subject matters by combining the inventions of documents 1-3 and 5.

Claim 12

Document 3 describes that an actuating force transmitting mechanism is placed outside an engine case. A person skilled in the art could have easily arrived at the subject matters by combining the inventions of documents 1-3.